MLC 52 Series

Basic MediaLink® Controllers

MLC 52 IR

MLC 52 RS VC

SERIES FEATURES

- **Universal display control** — The MLC 52 IR and MLC 52 RS have dedicated ports for communicating with virtually any projector or flat panel display via IR. The MLC 52 RS is also equipped with unidirectional RS-232 wired serial control capabilities. Display control drivers can be downloaded from the Extron Web site and used to configure the controller.
- **Meets or exceeds Section 508 accessibility standards**
- **Discrete ON and OFF display power controls** — Simplify system operations and eliminate the need for a handheld IR display remote.
- **Configurable buttons** — Can be set up to control display power, volume, input selection, or any other IR/RS-232 command supported by the display.
- **Macro and Toggle modes** — Each button can be set to send out multiple IR or serial commands. A button configured for Macro mode can send several commands in sequence. A button configured for Toggle mode will sequence between up to four different commands, sending out a different command each time the button is pressed.
- **Backlit buttons can be custom labeled for easy identification** — Buttons illuminate for ease of use in low-light environments.
- **Front panel configuration port** — Advanced configuration, driver downloads, and firmware updates can be performed via the front panel configuration port without removing the controller. The optional Extron CFG Cable, part # 70-335-01, connects the MLC 52 to the PC's RS-232 port.
- **Three easy ways to configure: IR learning, preconfigured display drivers, and IR beaming**
- **Inactivity timer for display shutoff** — Adjustable timer control provides automatic shutdown to preserve energy, prevent plasma burn-in, or extend projector lamp life.
- **Front panel security lockout** — If the MLC 52 IR or MLC 52 RS is installed in an unsecured environment where easy access is not desirable, a security lockout feature may be implemented to lock out all front panel controls.
- **External universal power supply included, replacement part # 70-775-01** — Provides worldwide power compatibility.

DESCRIPTION

The Extron **MLC 52 Series** Basic MediaLink® Controllers are economical control panels for any classroom environment. All models offer IR control, while the MLC 52 RS models also include unidirectional RS-232 control. MLC 52 VC models feature an integrated volume control knob for use with any Extron power amplifier or preamplifier with a remote volume control port. With easy input selection, power, and volume control, these controllers make classroom A/V operations simple.

Simple, Consistent Control in Every Room

Each MLC 52 Series controller acts as an extended remote control panel, providing user-friendly control for a display's power, volume, and input selection. Because the MLC 52 offers a central point of control for a display device's key functions, it eliminates the need for a display's IR remote control, making operations much more efficient. With the MLC 52, there are no misplaced remotes to search for, no confusing menus to navigate, and no dead batteries. No matter what brand of display is installed in each presentation venue, the MLC 52 Series Basic MediaLink Controllers always provide a consistent control method from room to room. Presenters with little or no training can walk into any MediaLink equipped classroom and operate the A/V system with minimal effort.

Configurable Buttons for Flexible Control Options

No programming knowledge is necessary to install MLC 52 MediaLink Controllers. The four lower buttons on the MLC 52 default to Volume Up, Volume Down, Select PC Input, and Select Video Input. Using the intuitive setup software provided, these buttons can be configured to send out any IR or RS-232 command supported by the display, making it easy to customize the controller to meet the needs of most single-display A/V systems. For example, three of the four buttons could be configured for input selection, with the fourth button dedicated to video mute or auto image. Each button can store up to four separate commands, providing additional flexibility to meet the specific control requirements for most display devices. When a button is configured for Macro mode, all of the stored commands associated with that button are sent with a single button press. In Toggle mode, the button steps through a series of two, three, or four commands, issuing a single command with each press of the button.

Three Easy Ways to Configure

The MLC 52 enables integrators to choose any of three methods when configuring the controllers. When used with the supplied Windows®-based configuration software, installation files can be saved and used to duplicate additional MLC 52 models. The files can also be archived for later use.

- IR learning - Allows the MLC 52 to be set up directly from the IR remote without the need for software and a PC.
- IR beaming - Quickly and easily duplicates complete configuration from one MLC 52 model to another without cables or software.
- Extron's easy-to-use configuration software - Provides fast and simple setup via RS-232 when combined with one of many IR drivers available on the Extron Web site.

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Extron®

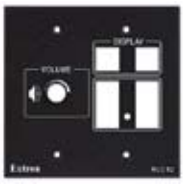
MLC 52 Series

DESCRIPTION (CONTINUED)

Optional Mounting Faceplates

Additional mounting options include:

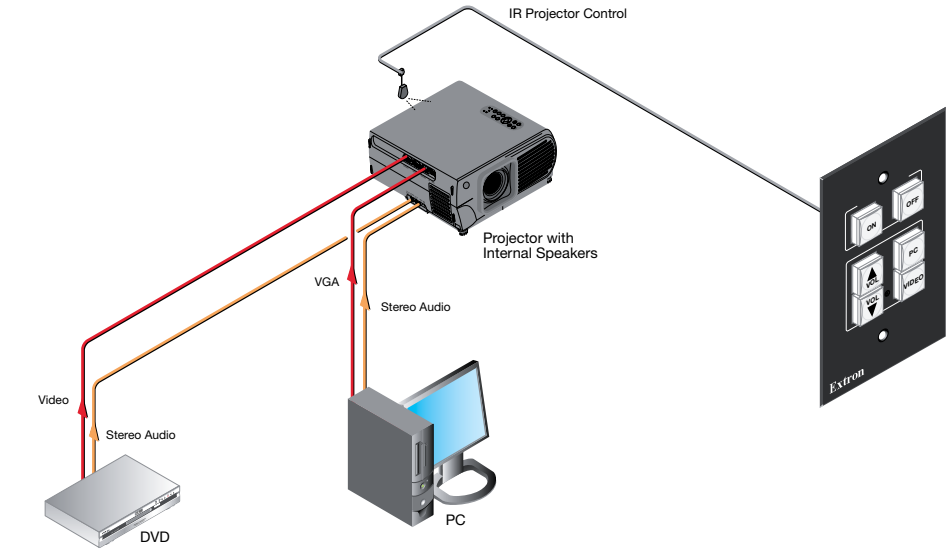
- MLM 52 1GWP - One-gang wall mounting kit with black and white high-impact plastic faceplates.
- MLM 52 VC - Two-gang wall mounting kit with an integrated volume control knob that allows for remote volume and mute control of any Extron power amplifier or preamplifier with a remote volume control port. Includes both black and white high-impact plastic mounting faceplates. Also available with black or white metal mounting faceplate.
- MLM 52 L VC - Metal lectern mounting kit with an integrated volume control knob that allows for remote volume and mute control of any Extron power amplifier or preamplifier with a remote volume control port. Available in black or white.



MLM 52 VC

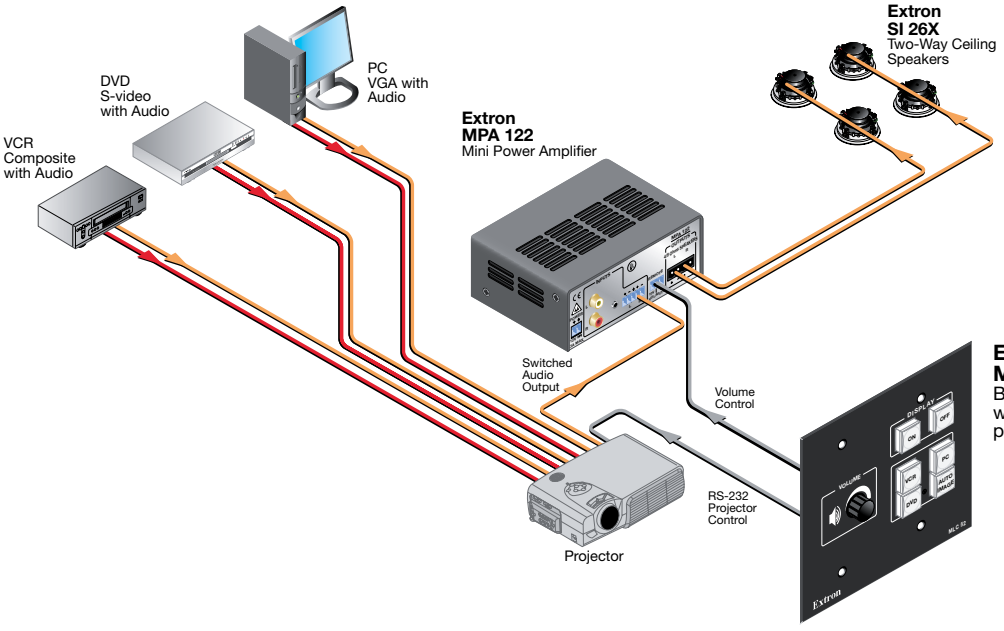
MLM 52 1GWP

MLM 52 L VC



Extron
MLC 52 IR
Basic MediaLink® Controller
with IR projector control

- Projector ON/OFF control
- Projector input switching
- Projector volume control



Extron
MLC 52 RS VC
Basic MediaLink® Controller
with IR or RS-232 hardwired
projector control

- Projector ON/OFF control
- Projector input switching
- MPA volume control

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MLC 52 IR

Basic MediaLink® Controller with IR Display Control

Front

Rear

UNIQUE FEATURES

- **IR port for universal display control**
- **Includes one-gang black & white faceplates**
- **Includes black & white MR 100 One Gang Mud Rings**

MODEL	VERSION DESCRIPTION	PART #
MLC 52 IR	Black & White Faceplates	60-744-02

MLC 52 IR VC

Basic MediaLink® Controller with IR Display Control and Volume Control

UNIQUE FEATURES

- **IR port for universal display control**
- **Integrated volume control knob** — Provides remote volume control of any Extron power amplifier or preamplifier with a remote volume control port
- **Includes two-gang black & white faceplates**
- **Includes black & white MR 200 Two Gang Mud Rings**

MODEL	VERSION DESCRIPTION	PART #
MLC 52 IR VC	Black & White Faceplates	60-745-02

MLC 52 RS

Basic MediaLink® Controller with IR and RS-232 Display Control

Front

Rear

UNIQUE FEATURES

- **Unidirectional RS-232 and IR ports for universal display control**
- **Available with one-gang black & white faceplates or brushed aluminum faceplate**
- **Includes MR 100 One-Gang Mud Ring**

MODEL	VERSION DESCRIPTION	PART #
MLC 52 RS	Black & White Faceplates	60-744-12
MLC 52 RS	Brushed Aluminum Faceplate	60-744-14

MLC 52 RS VC

Basic MediaLink® Controller with IR, RS-232, and Volume Control

UNIQUE FEATURES

- **Unidirectional RS-232 and IR ports for universal display control**
- **Integrated volume control knob** — Provides remote volume control of any Extron power amplifier or preamplifier with a remote volume control port
- **Available with two-gang black & white faceplates or brushed aluminum faceplate**
- **Includes MR 200 Two-Gang Mud Ring**

MODEL	VERSION DESCRIPTION	PART #
MLC 52 RS VC	Black & White Faceplates	60-745-12
MLC 52 RS VC	Brushed Aluminum Faceplate	60-745-14

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Extron®

MLC 52 RS MK

Basic MediaLink® Controller with IR and RS-232 Display Control - MK Wallplate for UK Junction Boxes

UNIQUE FEATURES

- Unidirectional RS-232 and IR ports for universal display control
- Available with white or brushed aluminum faceplate
- Designed to mount in a 47 mm deep single MK junction box for UK, Singapore, Hong Kong and other markets that use MK-type junction boxes

MODEL	VERSION DESCRIPTION	PART #
MLC 52 RS MK	White Faceplate	60-744-23
MLC 52 RS MK	Brushed Aluminum Faceplate	60-744-24

MLC 52 RS VC MK

Basic MediaLink® Controller with IR, RS-232, and Volume Control - MK Wallplate for UK Junction Boxes

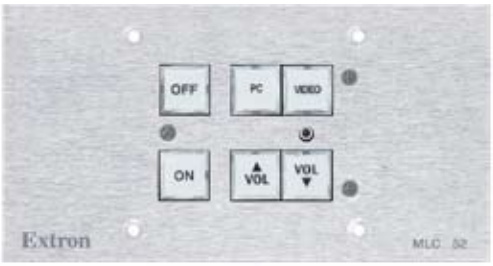
UNIQUE FEATURES

- Unidirectional RS-232 and IR ports for universal display control
- Integrated volume control knob — Provides remote volume control of any Extron power amplifier or preamplifier with a remote volume control port
- Available with white or brushed aluminum faceplate
- Designed to mount in a 47 mm deep double MK junction box for UK, Singapore, Hong Kong and other markets that use MK-type junction boxes

MODEL	VERSION DESCRIPTION	PART #
MLC 52 RS VC MK	White Faceplate	60-745-23
MLC 52 RS VC MK	Brushed Aluminum Faceplate	60-745-24

MLC 52 RS EU

Basic MediaLink® Controller with IR and RS-232 Display Control - EU Wallplate for European Junction Boxes



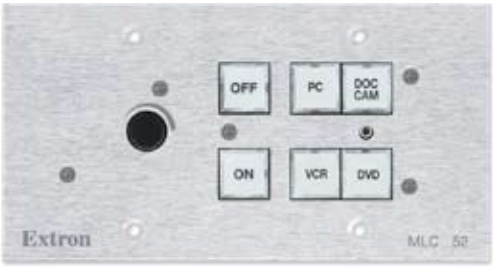
UNIQUE FEATURES

- Unidirectional RS-232 and IR ports for universal display control
- Available with RAL9010 White or brushed aluminum faceplate
- Designed to mount in a standard two-gang European junction box

MODEL	VERSION DESCRIPTION	PART #
MLC 52 RS EU	RAL9010 White Faceplate	60-744-35
MLC 52 RS EU	Brushed Aluminum Faceplate	60-744-34

MLC 52 RS VC EU

Basic MediaLink® Controller with IR, RS-232, and Volume Control - EU Wallplate for European Junction Boxes



UNIQUE FEATURES

- Unidirectional RS-232 and IR ports for universal display control
- Integrated volume control knob - Provides remote volume control of any Extron power amplifier or preamplifier with a remote volume control port
- Available with RAL9010 White or brushed aluminum
- Designed to mount in a standard two-gang European junction box

MODEL	VERSION DESCRIPTION	PART #
MLC 52 RS VC EU	RAL9010 White Faceplate	60-745-35
MLC 52 RS VC EU	Brushed Aluminum Faceplate	60-745-34

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MLC 52 Series

MLC 52 Series Accessories

INCLUDED ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
IR Emitter and Shield Kit	IR Emitter Kits	page ???	70-283-01

OPTIONAL ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
CFG Cable	9-pin D Female to 2.5 mm TRS Configuration Cable - RS Version Only	page 291	70-335-01
IR Link	Wall-Mountable IR Signal Repeater	page 290	60-404-02
IRL 20	IR Signal Repeater	page 290	60-580-01
IR 452	Handheld IR Remote Control for the MLC 52	page 428	70-543-01

SPECIFICATIONS

CONTROL — HOST PORTS

Serial control port ..... 1 bidirectional RS-232 front panel 2.5 mm mini stereo jack
Baud rate and protocol ..... 9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configurations ..... Mini stereo jack: tip = TX, ring = RX, sleeve = GND
Program control ..... Extron's configuration program for Windows®
Extron's Simple Instruction Set (SIS®)
IR learning frequencies ..... 30 kHz to 62 kHz
IR learning distance ..... 4" (10 cm) to 14" (36 cm) from the side panel

CONTROL — SERIAL PORT(RS MODELS ONLY)

Display control port ..... (1) 3.5 mm captive screw connector, 6 pole for unidirectional RS-232 control (±5 V) (connector is shared with IR control port and power input)
Baud rate and protocol (RS-232) ..... 57600 to 1200 baud (9600 default); 8 (default) or 7 data bits; 1 stop bit; no parity (default), or even or odd parity

CONTROL — IR PORT

IR control port ..... (1) 3.5 mm captive screw connector, 6 pole for IR (connector is shared with serial control and power input); TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 60 kHz

CONTROL — REMOTE VOLUME (VC MODELS ONLY)

Volume control port ..... (1) 3.5 mm direct insertion captive screw connector, 3 pole
Pin configuration ..... 1 = +10 VDC, 50 mA (max); 2 = volume (variable voltage); 3 = GND
Volume control voltage range ..... 0 V (mute) to 10 V (maximum volume)

GENERAL

External power supply ..... 100 VAC to 240 VAC, 50/60 Hz, external; to 12 VDC, 2 A, regulated
Power input requirements ..... 12 VDC, 0.15 A
Cooling ..... Convection, no vents
Temperature/humidity ..... Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing

Mounting
Rack mount
Models other than MK and EU models ..... Yes, with optional UCM-RAAP rack mounting kit, part #70-344-02 or -03
Furniture mount
Models other than MK and EU models ..... Yes, with the optional MLM 52 LVC lectern mounting kit
Wall mount
MLC 52 RS MK, MLC 52 RS VC MK ..... Mounts to a standard 47 mm deep MK electric type British standard wall box
MLC 52 RS EU, MLC 52 RS VC EU ..... Mountable into standard 50 mm deep European junction boxes
Enclosure type
MK and EU models ..... Metal
All other models ..... High-impact plastic
Enclosure dimensions
MLC 52 RS, MLC 52 IR
Faceplate ..... 4.5" H x 2.8" W x 0.1" D
(11.4 cm H x 7.1 cm W x 0.3 cm D) (1 gang)
Device ..... 2.7" H x 1.7" W x 1.4" D
(6.8 cm H x 4.3 cm W x 3.5 cm D)
(Overall rear dimensions, including connectors. Allow at least 1.85" [4.7 cm] depth in the wall or furniture for device and cable clearance.)

MLC 52 RS VC, MLC 52 IR VC
Faceplate ..... 4.5" H x 4.6" W x 0.1" D
(11.4 cm H x 11.7 cm W x 0.3 cm D) (2 gang)
Device ..... 2.7" H x 3.3" W x 1.4" D
(6.8 cm H x 8.4 cm W x 3.5 cm D)
(Overall rear dimensions, including connectors. Allow at least 1.85" [4.7 cm] depth in the wall or furniture for device and cable clearance.)
MLC 52 RS MK
Faceplate ..... 3.4" H x 3.4" W x 0.1" D
8.5 cm H x 8.5 cm W x 0.3 cm D
(1-gang MK electric type British Standard wall box frame size)
Device ..... 2.7" H x 1.7" W x 1.4" D
(6.8 cm H x 4.3 cm W x 3.5 cm D)
(Overall rear dimensions, including connectors. Allow at least 1.85" [4.7 cm] depth in the wall or furniture for device and cable clearance.)
MLC 52 RS VC MK
Faceplate ..... 3.4" H x 5.7" W x 0.1" D
8.5 cm H x 14.6 cm W x 0.3 cm D
(2-gang MK electric type British Standard wall box frame size)
Device ..... 2.7" H x 3.3" W x 1.4" D
(6.8 cm H x 8.4 cm W x 3.5 cm D)
(Overall rear dimensions, including connectors. Allow at least 1.85" [4.7 cm] depth in the junction box for device and cable clearance.)
MLC 52 RS EU
Faceplate ..... 3.2" H x 6.0" W x 0.1" D (2-gang EU)
(8.1 cm H x 15.2 cm W x 0.3 cm D)
Device ..... 1.7" H x 2.7" W x 1.4" D
(4.3 cm H x 6.8 cm W x 3.5 cm D)
(Overall rear dimensions, including connectors. Allow at least 1.85" [4.7 cm] depth in the junction box for device and cable clearance.)
MLC 52 RS VC EU
Faceplate ..... 3.2" H x 6.0" W x 0.1" D (2-gang EU)
(8.1 cm H x 15.2 cm W x 0.3 cm D)
Device ..... 1.7" H x 4.5" W x 1.4" D
(6.8 cm H x 11.4 cm W x 3.5 cm D)
(Overall rear dimensions, including connectors. Allow at least 1.85" [4.7 cm] depth in the junction box for device and cable clearance.)
Product weight
MLC 52 RS, MLC 52 IR, MLC 52 RS MK ..... 0.2 lb (0.1 kg)
VC and EU models ..... 0.3 lb (0.1 kg)
Shipping weight ..... 3 lbs (2 kg)
Vibration ..... ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance
Safety ..... CE, CUL, UL
EMI/EMC ..... CE, C-tick, FCC Class A, ICES, Section 508 of the Rehabilitation Act (29U.S.C.794d), VCCI Class A
MTBF ..... 30,000 hours
Warranty ..... 3 years parts and labor

NOTE: All nominal levels are at ±10%.

NOTE: Specifications are subject to change without notice.

Note: For complete specifications, please go to www.extron.com

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